

Don Williams

Colors by Munsell Color Services Lab

Golden Thread

D50 Illuminant, 2 degree observer

Density

0.04 0.09 0.15 0.22 0.36 0.51

1 2 3 4 5 6 7 8 9 10 11 (A) 12 13 14 15

| L* | a* | b* |
|-------|--------|--------|
| 39.12 | 13.24 | 15.07 |
| 65.43 | 18.11 | 18.72 |
| 49.87 | -4.34 | -22.29 |
| 44.26 | -13.80 | 22.85 |
| 55.56 | 9.82 | -24.49 |
| 70.82 | -33.43 | -0.35 |
| 63.51 | 34.26 | 59.60 |
| 39.92 | 11.81 | -46.07 |
| 52.24 | 48.55 | 18.51 |
| 97.06 | -0.40 | 1.13 |
| 92.02 | -0.60 | 0.23 |
| 87.34 | -0.75 | 0.21 |
| 82.14 | -1.06 | 0.43 |
| 72.05 | -1.19 | 0.28 |
| 62.15 | -1.07 | 0.19 |

16 (M) 17 18 (B) 19 20 21 22 23 24 25 26 27 28 29 30

| L* | a* | b* |
|-------|-------|-------|
| 49.25 | 13.06 | 38.91 |
| 38.62 | 13.06 | 54.91 |
| -0.04 | 30.77 | 30.01 |
| 0.01 | 52.00 | 81.29 |
| 0.75 | 68.80 | 29.37 |
| 0.98 | 49.49 | 52.74 |
| 1.24 | 3.45 | 50.88 |
| 1.67 | 3.45 | 27.17 |
| 2.04 | 29.37 | 50.87 |
| 2.42 | 52.74 | 29.46 |

0 1 2 3 4 5 6 7 8 9 10

centimeters

inches

The Library Company

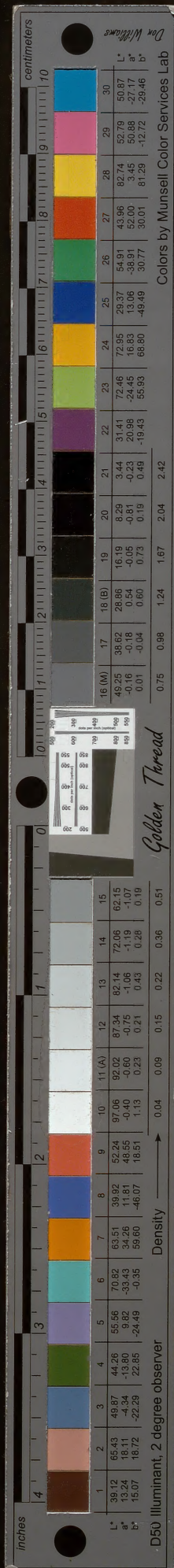
OF PHILADELPHIA

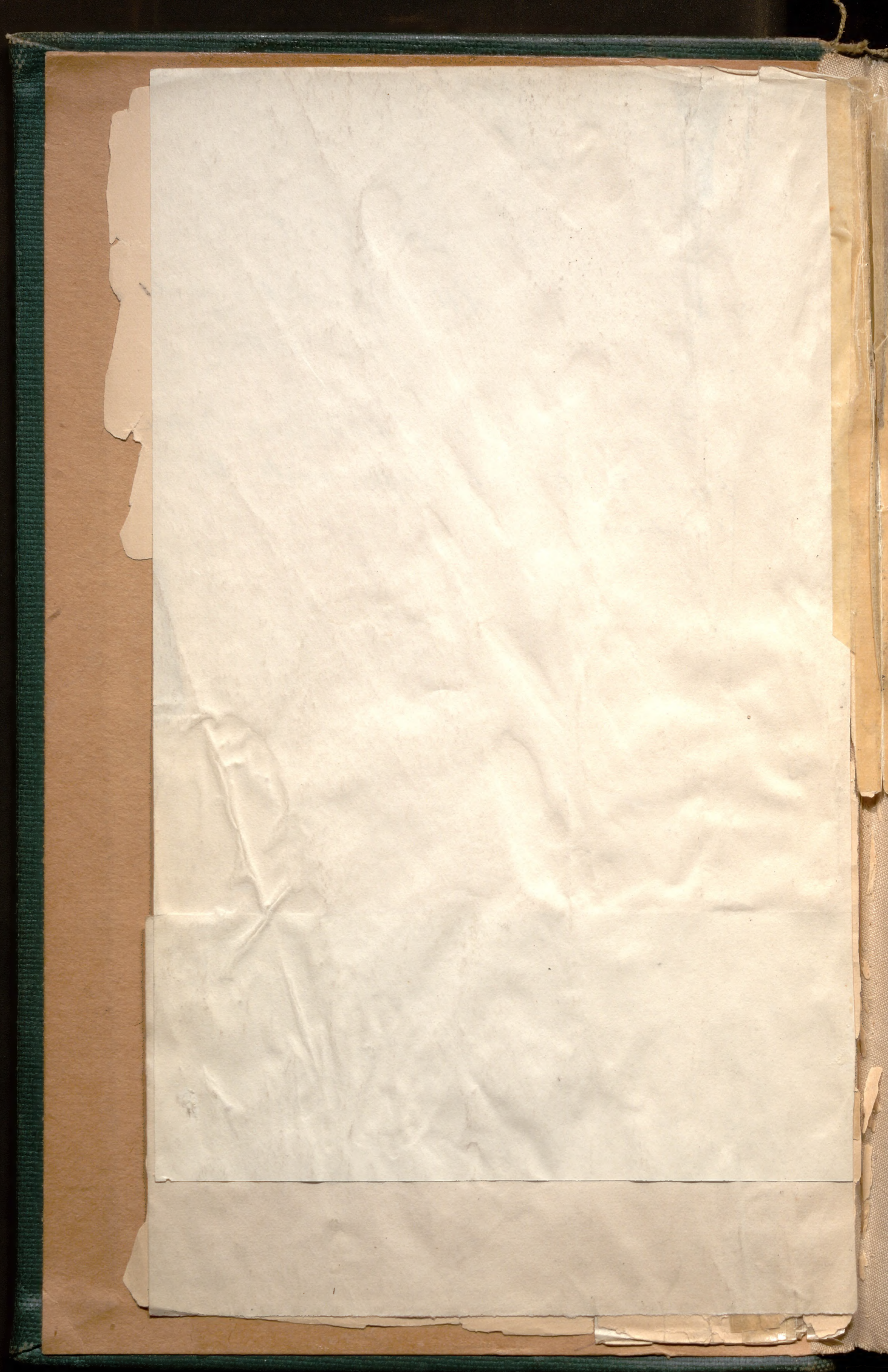
117497.0

COMMUNITER BONA PROFUNDERE
DEUM EST

George M. Abbott Esq
with the kindest regards
of the author

Euge serua bone et fidelis; quia super
haec fuisti fidelis, super multa te
constituam.





ON THE

CLASSIFICATION OF BOOKS

A PAPER READ BEFORE THE AMERICAN LIBRARY
ASSOCIATION, MAY, 1882.

BY

LLOYD P. SMITH,

LIBRARIAN OF THE LIBRARY COMPANY OF PHILADELPHIA.

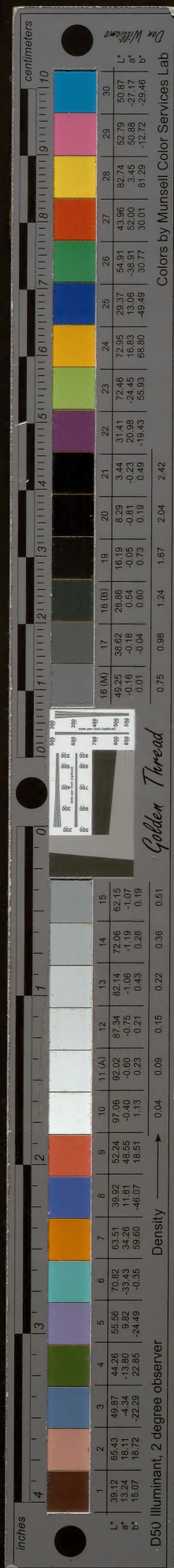
Expertus disces quam gravis iste labor.—Facciolati.

BOSTON

LIBRARY BUREAU

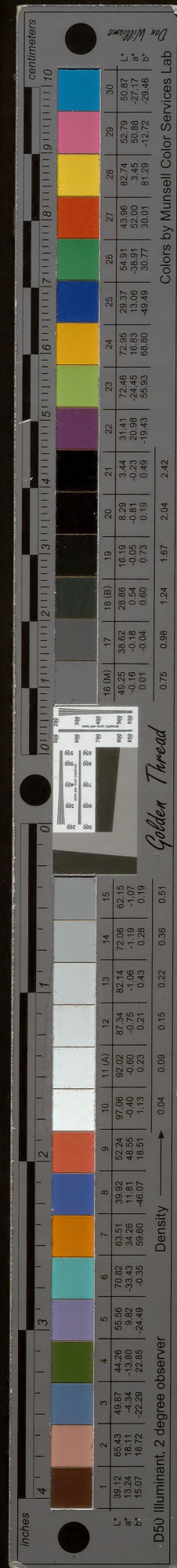
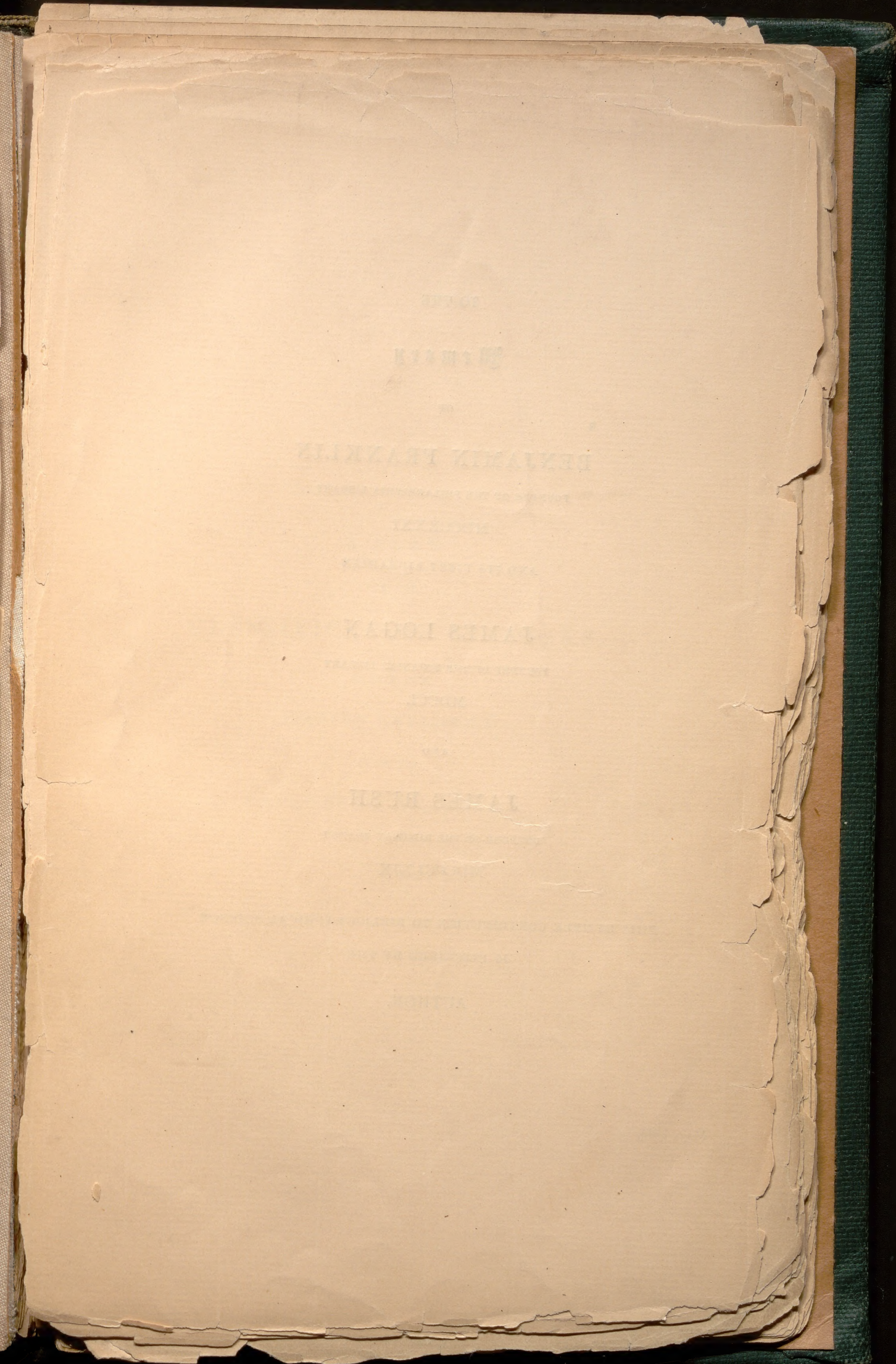
PUBLISHERS OF WORKS ON PUBLIC AND PRIVATE LIBRARIES AND LIBRARIANSHIP
32 HAWLEY STREET.

1882.



CLASSIFICATION OF BOOKS

COPYRIGHT
LIBRARY BUREAU
1882



TO THE
Memory
OF
BENJAMIN FRANKLIN

FOUNDER OF THE PHILADELPHIA LIBRARY

MDCCXXXI

AND ITS FIRST LIBRARIAN

JAMES LOGAN

FOUNDER OF THE LOGANIAN LIBRARY

MDCCL

AND

JAMES RUSH

FOUNDER OF THE RIDGWAY BRANCH

MDCCCLXIX

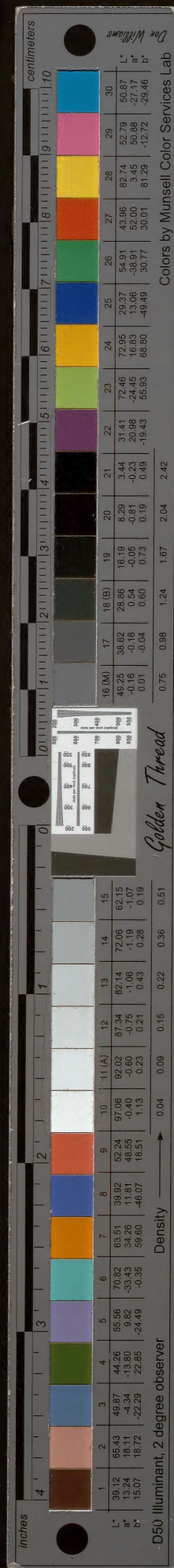
THIS HUMBLE CONTRIBUTION TO BIBLIOGRAPHICAL SCIENCE

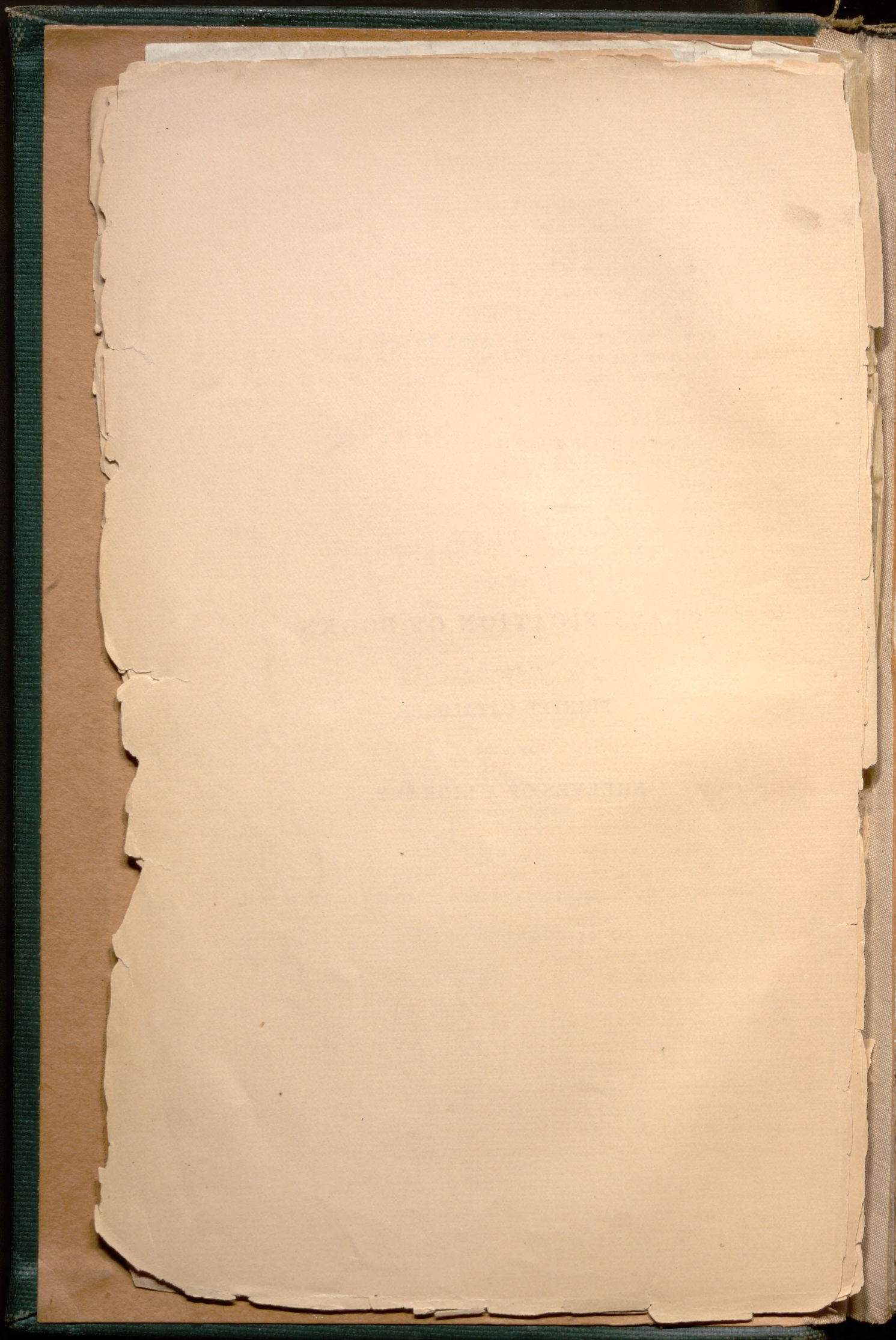
IS INSCRIBED BY THE

AUTHOR.

MAY, 1882.

A PLAN
FOR THE
CLASSIFICATION OF BOOKS
AS WELL IN A
PRINTED CATALOGUE
AS ON THE
SHELVES OF A LIBRARY.

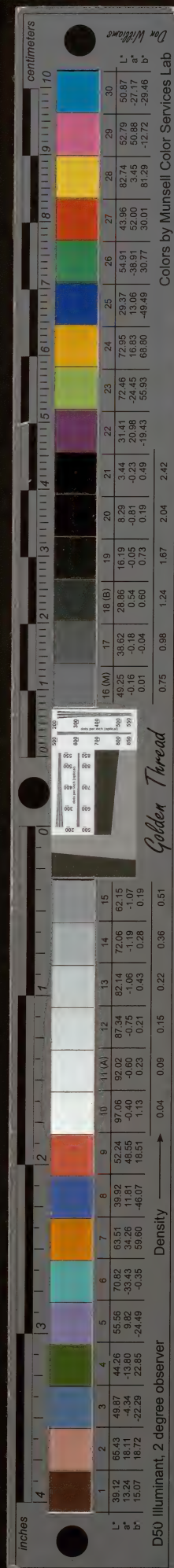




INTRODUCTION.

HOWEVER they may differ on the subject of cataloguing, librarians are agreed that books should be arranged on the shelves according to subjects. Experience teaches that it is impossible to attach too much importance to the advantages flowing from a wise and methodical order in the arrangement of a library. It is when it comes to systems of classification that experts—a limited number—begin to differ; and the reason is not far to seek. It is mainly because of the hardness of the task, which is so great that Aristotle, who executed it for the King of Egypt, was said by Strabo to be the only man who was ever able to arrange the books of a large library in an orderly and systematic manner. From that time to the present, the classification of human knowledge has occupied, more or less, the attention of some of the wisest of mankind, including such men as Bacon, Leibnitz, D'Alembert, and Coleridge. I refrain from wearying you with an account of the various systems which have been put forward from age to age. Those who wish to examine the history of the subject, will find it set down in detail in Woodward's *System of Universal Science* (Philadelphia, 1816). Suffice it to say that the genius of orderly arrangement seems, in modern times, to have taken up its special abode with the French, who have succeeded as well in classifying books as they have in ordering some other things usually considered more important.

The system of dividing a library into five classes—Theology, Jurisprudence, Sciences and Arts, Belles Lettres, and History, the whole followed or preceded by Bibliography—is commonly ascribed to the great French bibliographer, G. F. De Bure, a bookseller of Paris (1731–1782); but he appears to have merely adopted the plan of his predecessor in the same business, Gabriel Martin (1679–1761), who himself borrowed from Jean Garnier's *Systema bibliothecæ collegii Parisiensis Societatis Jesu* (1678). The plan, being found to work well in practice, has since been commonly followed in the catalogues and libraries of France, and, indeed, of the Continent generally; and in the arrangement of its books on the shelves, a system not very different is now practised at the British Museum. This plan was also deliberately adopted, but not without valuable improvements in detail, in the preparation of his catalogue of the Philadelphia Library (1835) by my learned and painstaking predecessor, the late George Campbell. That classified catalogue was a thorough and scholarly piece of work, to which was added a copious alphabetical Index; but in the mean time the Philadelphia Library had no classification on the shelves, it being probably the only large collection of books in the world where the volumes were arranged by sizes only, and in the order of accession. The defects of that system—or want of system—were so serious that, on the occasion of removing the Loganian Library and the greater part of the books of the Library Company, in 1878, to the Ridgway Branch, the opportunity was embraced to make a more logical disposition of them on the shelves, and one based, as to its main features, on the



system of the printed catalogue of 1835. It was in the actual execution of this work—*res sane magni momenti multique sudoris*—that the accompanying classification was wrought out; and as a bibliographical system, to be of value, must be the fruit of experience rather than an effort of genius, it has occurred to me that my fellow-members of the American Library Association might possibly find in it some useful suggestions.

The classification is intended to be permanent only so far as the six main classes A E I O U and Y, and their sub-classes a, b, c, d, e, etc., are concerned. In its details it is open to modification to suit the needs of libraries devoted mainly to the collection of one or a few classes of books. As the volumes multiply on the shelves, it is obvious that the divisions 1, 2, 3, 4, etc., can be added to indefinitely,—by each librarian for himself—without deranging the system. Moreover, the divisions can themselves be subdivided by supplying arbitrary marks. For example, under Zoology (I16), I have made but one subdivision, that of Birds (I16 +), whereas an Academy of Natural Sciences might well find it expedient to distribute their works on the animal kingdom in accordance with the elaborate plan set forth in Agassiz's *Essay on Classification*. On the other hand, a small library may content itself with the classes and sub-classes marked by letters only, or even with the classes A E I O U Y alone. It is to be remarked in passing that, by this arrangement, whatever improvements may be made from time to time in the details of the system, the books have always a relative, and not a fixed location on the shelves, so that they may be moved from shelf to shelf, from case to case, and from building to building, without altering the shelf marks.

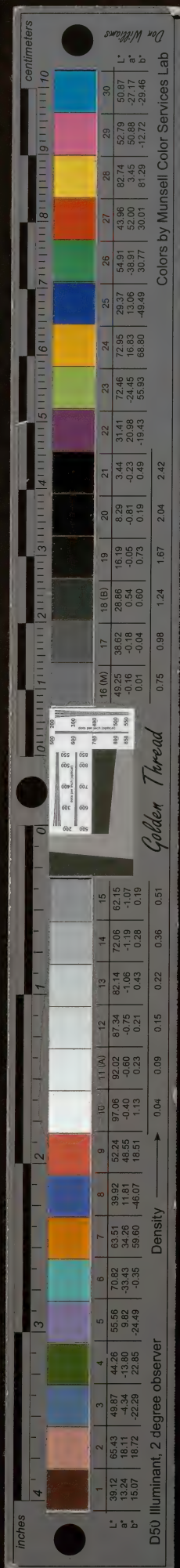
The system is available, not only for the arrangement of books on the shelves, but also for their classification in a subject catalogue. Indeed, the shelf lists themselves form—when properly made—a subject catalogue, which may be sent off to the printer as soon as there is money enough to pay for setting them up in type. It is true that most of the ends of a subject catalogue may be gained by the modern dictionary catalogue—combining authors and subjects in one alphabet—which it is to the credit of Mr. Poole to have invented, and of Messrs. Cutter, Noyes, and others to have developed; but, nevertheless, to my mind, the ideal printed catalogue is a classified one, with a copious alphabetical index. Suppose that the British Museum had such a printed catalogue to-day, how much would the usefulness of that great Institution be enhanced!

It is only too obvious that the librarian who adopts this, or indeed any plan for the classification of books, must sometimes be at a loss to decide exactly under what subdivision to place a particular book, the problem, in difficult cases, being quite the highest proposed to a bibliographer. The rule is to place each book under its most specific class, but nevertheless two successive librarians—or indeed the same one at different times—might, without impropriety, classify the same book under different heads. To secure uniformity, therefore, and to make the work of cataloguing and classifying books arranged on this plan more easy, the accompanying Synopsis and Classification are followed by an alphabetical Index. In its preparation, I have made use of the subject Index of my ingenious friend Mr. Melvil Dui, in his excellent *Classification of a Library* (Amherst, 1876). By his kind permission, it is

here reproduced, with the addition of about nine hundred new catchwords which were found desirable in practice; for some of the latter I am indebted to Mr. F. B. Perkins' *Rational Classification of Literature* (San Francisco, 1881), which reached me as these sheets were passing through the press. *The alphabetical class-signs in my system are placed alongside of the numerical class-signs in Mr. Dui's system.* The reason for adopting an alphabetical instead of a numerical designation of the several classes and sub-classes was simply to prevent confusion in calling for a book by its number, it being thought that the number of the class might be mistaken for the number of the book. This, of course, is a matter of detail which may be changed without affecting the system.

Whether the classification itself is more or less logical than that of others who have attempted this hard and thankless, but needful task, it is not for me to say. It has at least the merit of not being made out of nothing, but rather of having been evolved from a pre-existing system which has the approval of the best bibliographers of Europe, and which has been tried for centuries, and not found wanting. *Nolumus leges Angliæ mutare.* I believe the groundwork of the system to be good, but I know very well that the building I have raised upon it can be improved; and therefore any one who thinks of making use of either would do well to study—among others—the *Table Méthodique* of Brunet, and the classification—which, however, is rather crude—of the British Museum. The latter can be consulted in Henry Stevens' *Catalogue of the American books in the Library of the British Museum* (London, 1866). Mr. Dui's and Mr. Perkins' highly original systems are also full of valuable suggestions, though the former is, to my thinking, not sufficiently worked out in detail, while the latter, with its six thousand classes—ten times as many as are used in the British Museum—is, if anything, too much so. The reference alphabet—first used by Mr. Dui—gives their systems of classification, in point of practical utility, a decided advantage over others; and Mr. Dui's decimal division brings in an element of simplicity which has, in theory at least, some obvious advantages. It is also steadily making its way into practice, and I understand there are more American libraries now using that plan than any other. Mr. Perkins "believes that his system accomplishes some good things which Mr. Dui's does not, and cures some defects in it:" and I agree with him. If I did not think that mine was on the whole better than either, I should not publish it. Nevertheless, I am free to say that in working out the details I consider Mr. Perkins' arrangement in some respects better than my own, and if I had seen it in time I could have improved mine in several ways. Mr. Swartz's Mnemonic System, and that of Mr. Cutter—described in Vol. IV. of the *Library Journal*—are also worthy of the highest consideration. Doubtless the true Classification of Books, at once rational and convenient in practice, is a thing yet to be established, but at any rate the materials for it exist; and if the present System with its Index—on which I have been working more or less for the past four years—contributes in any degree to make the labors of those who follow me more easy, it is all that I expect.

I have only to add my thanks to our excellent Secretary for his kindness in undertaking the publication of the work, and to say that its profits, if any, are to go to the American Library Association.



SYNOPSIS.

| | |
|----------|--|
| Class A. | RELIGION. |
| E. | JURISPRUDENCE. |
| I. | SCIENCES AND ARTS. |
| O. | BELLES LETTRES. |
| U. | HISTORY. |
| Y. | BIBLIOGRAPHY AND THE HISTORY OF LITERATURE. |

Subclasses. a, b, c, d, e, etc.

Divisions. 1, 2, 3, 4, etc.

Subdivisions. +, △, □, IV, V, VI, etc.

CLASSIFICATION.

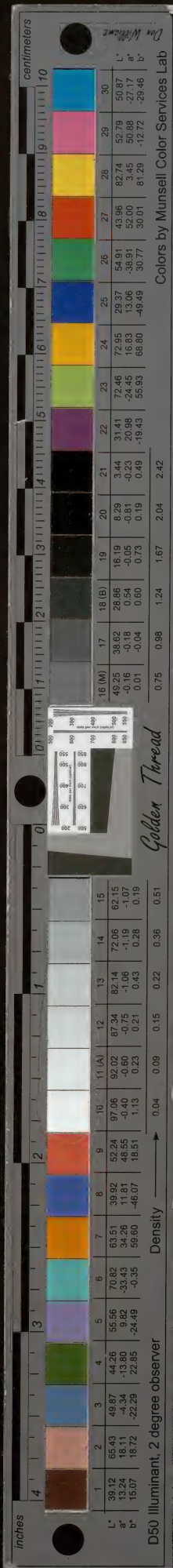
CLASS A. RELIGION.

(Cyclopædias of Religion are classed A only.)

- a Treatises on Toleration.
- b Treatises on Natural Religion and on the existence of a God, His attributes, etc.; Theism, Pantheism, Atheism. (See A o 8.) *Bridgewater treatises.*
- c The Holy Scriptures. Texts, Paraphrases, and Versions.
 - 1. Bibles.
 - 2. Selections from both Testaments.
 - 3. Old Testament. *and Parts of the O. Testament*
 - 4. Apocryphal books. *Teaching of the XII Apostles, Acts as Bible*
 - 5. New Testament.
 - 6. Parts of the New Testament. *Plato*

Note: under each division Versions are placed in the alphabetical order of their languages, preceded by Polyglots.

- d Scripture histories, dictionaries, cyclopædias, concordances, chronologies, and harmonies. The life of Christ. *On the Revision. Library list.*
- e Criticism, interpretation of, and commentaries on, the Scriptures.
- f Treatises on the Truth and Evidences of revealed religion. *Hulsean, Bampton, Boyle, and Bohlen lectures.*
 - 1. Faith and reason, Science and revelation.
 - 2. Miracles. The resurrection of our Lord.
 - 3. Inspiration.
- g Creeds, catechisms, liturgies, and treatises thereon. The Christian Year. Rites and ceremonies, sacraments, ordinances.
 - 1. Missals, breviaries, etc. Pontificale Romanum.
 - 2. Book of Common Prayer.
- h Collections of prayers and meditations. The Lord's Prayer, Answers to prayer, Prayer meetings, etc. *Thomas à Kempis, Luth.*



- i Metrical versions of the Psalms; Hymns and works thereon.
- k Ancient and modern theologians. The Fathers, and works on them.
- l Doctrinal, practical, controversial, and miscellaneous divinity. Systematic and pastoral theology.
 - 1. The controversy between the Roman Catholic Church and Protestantism, etc. (See A o 11, 12, 13, 15 +.)
 - + Infallibility.
- m Sermons, pastoral letters and charges, etc. Homiletics. Pulpit elocution and oratory.
- n Jewish antiquities, history, customs, literature, philosophy, etc. Books (other than the Bible) printed in Hebrew. The Talmud, rabbinical literature, the Kabbala.
 - 1. The Sabbath and the Lord's Day.
- o Ecclesiastical history; Christian antiquities; the primitive church.

Note: Under each of the following heads are placed controversial, periodical, and other works illustrating the history of the denomination in question.

- 1. Oriental Churches.
- 2. Latin (See A o 13, and U u 2).
 - + Jansenists, Quietists, Mystics, Port Royal. Old Catholics.
 - △ Gallican Church, etc.
 - Spain, etc.
- IV. R. C. Church in the U. S. and Canada.
- 3. Anglican and Protestant Episcopal. Christianity in England.
 - + Reformed Episcopal Church.
- 4. Scottish and Presbyterian.
- 5. Congregational; the Puritans; N. England.
- 6. Baptist. Works on baptism.
- 7. Methodist.
- 8. Unitarian and Universalist.
 - + Arian and Socinian history and controversy.
- 9. Mormon. Utah.
- 10. Society of Friends, including lives and works of its founders. Progressive Friends.
- 11. Other denominations. The Reformation. Protestant sects. (See A l 1.)
 - + Reformation in Germany: Luther and the Lutheran Church.
 - △ Reformation in Switzerland, Holland, etc. Calvin and the Reformed Church.
 - Reformation in France. The Huguenots.
 - IV. " Italy.
 - V. " Spain.
- 12. History of the Inquisition.
- 13. Collected lives of Saints, Popes, Cardinals, etc. Martyrologies. (See U z, and U u 2.)
- 14. Collected religious biography. Collected lives of missionaries. (See U z.)

As 14 + Individual biographies of Biblical characters.

15. Bible, missionary, and other Societies. Missions.

+. Monastic and religious Orders. Flagellants. Lollards.

△. Society of Jesus.

Note: For North American Jesuit Relations, etc., see U y 9 +.

16. History of dogma and heresy. Councils, their decrees and canons.

Islam.

1. Life of Mahomet.

2. The Koran, etc.

Paganism. Mythology.

1. Comparative mythology; views of all religions; science of religion;

origin of belief; symbolism; serpent worship; Sabianism. (See I e,
Of 7, U i.) *Brāhma-Saṃgī. Hibbert Lectures*

2. Greek and Roman mythology.

+. Oracles; Sibylline books; Eleusinian mysteries, etc.

3. Mythology of Germany and Northern Europe. *Eddas.*4. Hinduism; Buddhism; Jainism; the Vedas; the Bagvat Gita, etc. Works
in Sanskrit and translations thereof. *Lama-bon.*+ *Esoteric Buddhism. Theosophy*
5. Parseeism. Zend-Avesta. Culte de Mithra.6. Religions of China and Japan. Chinese classics and literature. (See U
x 2, and O a 2 note.)

7. Other religions. (See U f 4.)

r Theological and religious periodicals. (See A o note.)

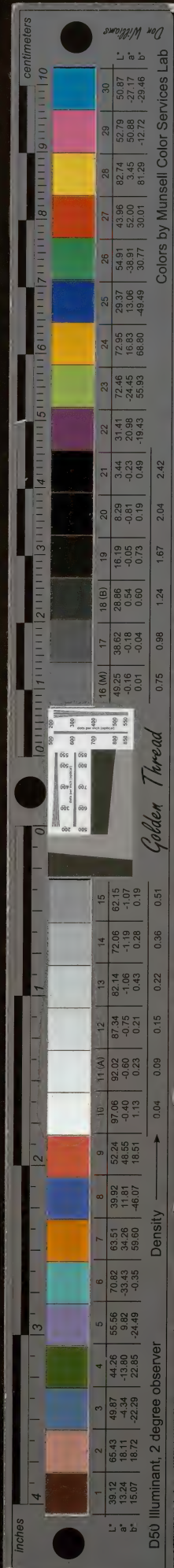


CLASS E. JURISPRUDENCE.

- a General treatises on laws: legal miscellanies, periodicals, and history; professional ethics; the law of evidence; oaths; courts.
 - 1. Law dictionaries.
- b Law of nature and of nations. Sea laws. Diplomatic and consular manuals.
- c Treaties.
- d Ancient, civil, feudal, and ecclesiastical law.
- e Common law and Equity.
 - 1. Law of real property. Conveyancing.
 - 2. Commercial law.
 - 3. Law relating to women, marriage, and divorce. (See I g 2.)
- f Constitutional and municipal law and commentaries.
 - 1. The United States. *Acts of Congress*
 - 2. Particular States, alphabetically.
 - 3. Great Britain. (*Law, not hist.*)
 - + . Constitutional history.
 - △. Colonial.
 - 4. Continental Europe.
 - 5. Asia. *Manu.*
 - 6. Other countries.
- g Parliamentary law and practice. Rules of order.
- h Criminal and penal law. Police and prison discipline. Houses of refuge and correction. Detectives. Crime.
 - 1. Capital punishment.
- i Medical jurisprudence.
- k Trials.
 - 1. Criminal and State trials.
 - 2. Reports. Trials in civil cases.
 - + . English.
 - △. American, alphabetically by states.
 - 3. Individual and particular cases.
 - 4. Ecclesiastical trials.
- m Patent law; Copyright.
- n Military law; treatises on courts martial. Army regulations. Militia laws.
 - 1. Trials by court-martial.

CLASS I. SCIENCES AND ARTS.

- a Philosophy: general and miscellaneous works. (See I c.)
1. History of philosophy. Philosophical dictionaries. *Lives of philosophers*
- b Cyclopedias and dictionaries of arts and sciences. Collections of useful knowledge.
1. French, German, etc. *I b 2 (Find subjects)*
- c Metaphysics. Psychology. (See I a.)
- d Physiognomy and Phrenology. Temperaments.
- e Occult philosophy. Prophecies other than Biblical. Swedenborg and his works. *Swedenborg*
- The future life considered apart from Revelation. (See A q 1, U i.)
1. Alchemy.
2. Astrology and palmistry; fortune telling; oneiromancy.
3. Demonology; witchcraft; apparitions; hallucinations; stigmata. *Exorcism*
4. Modern Spiritualism; mesmerism; somnambulism; dreams; sleep. *hypnotism*
- f Logic.
- g Moral philosophy; Ethics.
1. Ethical treatises on the Passions, Virtues, Vices, Peace, Solitude, Happiness, Suicide, etc. *Peace & War*
2. Marriage and the condition, duties, and rights of women; sex in nature; the family. (See ~~U~~) *E e 3*
3. Etiquette, courtesy, the character of a gentleman. (See U h.)
4. Casuistry, Christian morals. Cruelty to children and animals. *Vivisection. Business ethics.*
5. Temperance. Prohibitory and license laws. (See I n 2 +.)
6. Lotteries and gambling.
- h Education.
1. Elementary works for youth. (See O f 2 +.)
2. Universities, Colleges, Military and Naval Academies, Theological, Industrial, and Common Schools. U. S. and State Reports. (See I n 9, U y 7 +, U y 8.) *Educational History, Common Schools*
3. Instruction for the blind, deaf, etc. (See I i 7, I n 8.)
4. Self-culture. Debating societies and reading clubs. *Self-culture*
- i Government and politics, general treatises; histories. *Civil Government*
1. Political economy, population, pauperism, wages, labor, strikes, co-operation, communism, socialism. *Fascism*
2. Money, the precious metals, mints, finance, banks, investments, usury, interest tables, paper credit, national debts, taxation. (See U p 5 +, U y 7 Δ.)



3. Trade, colonization, commerce, weights and measures, auctions.

+ History of commerce, colonization, and prices. Tariffs (except U. S., U y 7/Δ), mails, commercial dictionaries, periodicals, etc.

Δ. Reports of Companies, including Boards of Trade. Trade unions. Guilds.

4. Slavery and the slave trade. (See U y 5.) *Negroes.*

+ African colonization. Liberia. (See U d 12 vi, U x 10.)

5. Internal improvements, civil engineering, water-works, roads, canals, bridges, tunnels, wheel carriages, etc.

+ Histories and reports. Canal companies. (See U x 4 +.)

6. Railroads, tramways, locomotives, including reports of companies, railway guides, and excursions. (See U c 1.) *Railway engineering.*

7. Hospitals (see I n 8), dispensaries, and poor-houses. Lazarettos, quarantine. Public and private charities.

k Physics. Natural philosophy. Dictionaries and encyclopedias; general and miscellaneous, systems, histories, etc. *Popular science.*

1. Electricity, galvanism, magnetism, heat, gravitation, force.

2. Electricity, etc., applied to the arts. *Telegraphs, telephones, etc. Radio*

3. Meteorology, pneumatics, winds, storms, the barometer, magnetic observations, climate. *Signal Service*

+ Ballooning. *Aeronautics. Aviation.*

4. Chemistry.

5. Applied chemistry.

6. Spectrum analysis.

l Natural history: General and miscellaneous works. *Cosmology. The creation*
Museums. Transactions. Collectors' manuals. (See I y.)

1. Natural history of different countries, etc.

2. Geology, palæontology, fossils, glaciers, volcanoes, earthquakes, waters, etc.
+ Baths, springs, mineral waters. Water analysis.

Δ. Petroleum.

3. Geological reports, maps, etc., alphabetically arranged. *Local geology*

4. Mineralogy, mines, metals, reduction of ores.

+ Coal and iron. (See I u 3.) Peat.

Δ. Mining companies, etc. *Mines of States, countries, etc.*

5. Botany.

+ Trees and shrubs. (See I u 11 +, I u 12.)

Δ. Transactions and periodicals.

6. Zoology, Taxidermy, Instinct. *Insects*

+ Birds.

7. Biology, origin of species, Darwinism, evolution, spontaneous generation, life.

m Anthropology, the natural history of man, the unity of the human race, etc.
(See U f 1.)

1. Descent of man; heredity.

2. Ethnology.

+. The negro.

△. Crania, etc.

3. Sociology; history of civilization and progress; social science; modern thought. *Village communities.*

n Medicine: general and miscellaneous works, medical dictionaries, and periodicals.

1. Anatomy and physiology; histology. *Comparative anatomy. The hand. The*

2. Materia Medica. Pharmacopœias, dispensaries, medical botany.

+. Poisons; stimulants and narcotics; tobacco; opium; hasheesh.

3. Theory and practice of medicine. Nursing. *Anæsthetics*

+. Professional ethics.

△. Change of air.

□. Homœopathy, hydropathy, etc.

4. Surgery—including military surgery—and obstetrics. Gynæcology.

+. Dentistry.

5. Treatises on particular diseases (alphabetical by subjects).

6. Diseases incident to various places, professions, etc.

7. Treatises on health, diet, regimen, longevity, training, bathing, physical beauty; boards of health, public hygiene, etc. *massage*8. Mental disorders, including Reports of idiot schools and asylums for the insane. (See I i 7.) *The brain and its connection with mind.*9. History of medicine and of medical schools, departments, etc. Medical directories. *Lives of Physicians*

x o Mathematics; general and miscellaneous works. Histories.

1. Arithmetic, algebra, calculus, quaternions.

2. Geometry, trigonometry, conic sections, surveying, mensuration.

3. Logarithms; mathematical tables and instruments.

4. Theory and calculations of probabilities; life annuities.

+. Insurance and insurance companies.

p Astronomy; astronomical tables, and instruments. Theory of the tides.

1. Almanacs, ephemerides, etc.

2. Treatises on the Calendar. (See U e.)

3. Plurality of worlds.

q Mechanics, hydrostatics, hydraulics, descriptions of machines, steam engines. (See I i 6.)

r Optics, light, vision, the eye. Acoustics. *The Voice (See 227)*

1. The microscope and its revelations; stereoscope; kaleidoscope.

2. The phonograph, etc.

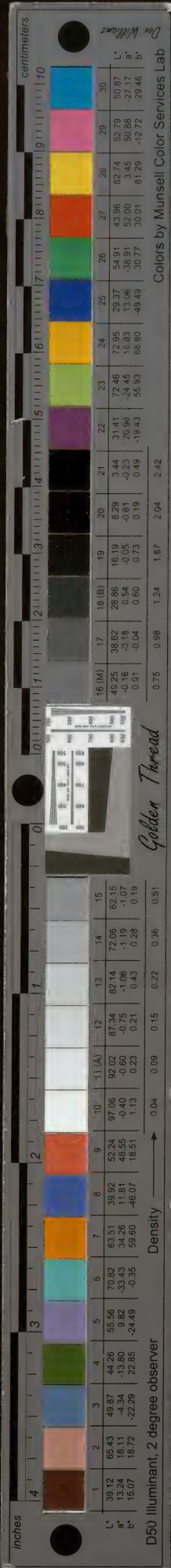
s The fine arts; general and miscellaneous works; dictionaries; periodicals.

Æsthetics. *Essays on art and impositions on art*

1. Arts of design; perspective; beauty in art.

2. Painting, enamelling, harmony of colors, chromatography, etc. (See U z 1 △.) *Practical Modern Painting (See 227)*

3. Engraving, lithography.



4. Sculpture, bronzes, seal engraving, wood, paper, and wax carving; prints of statues, monuments, etc. *seals,*
5. Photography and photographs; photolithography.
6. Books of prints, catalogues and descriptions of pictures, galleries, etc. (See U z 3.) *Monogram*

+ Illustrated journals.

△. Caricatures and comic papers.

□. Picturesque views, tours, etc.

7. Music and musical composition. Criticism, dictionaries, periodicals, history, etc.

+ Art of singing. *The Voice (L. P. S.) See 2.*

△. Songs, operas, and oratorios, with music. (See O e 7.)

□. Sacred music. *without music.*

IV. General and secular music.

V. Single instrumental compositions.

VI. Particular instruments.

8. Ecclesiastical art, Christian iconography, church needlework and vestments.

9. Anatomy for artists.

10. History of art. (See U z 1 △.)

- t Architecture. General works, histories, periodicals, etc. Ancient architecture.

1. Church and gothic; bells; views of churches. *Murray's Cathedrals*

2. Domestic and rural.

3. Masonry and bricklaying; tiles; cements.

4. Carpentry and turning.

5. Warming, lighting, ventilating, and draining buildings. *Lighting gas, photogenic oils, fires, and fire engines. fuel gas*

6. Furniture, house painting, decorative arts, etc.

+ Vases, gems, precious stones, finger-rings, plate, bric-a-brac

7. Views and descriptions of edifices, ruins, arches, columns, etc. (U f.)

8. School architecture.

- u Arts and trades, general works, patents, inventions, periodicals, dictionaries, histories.

1. Art of memory.

2. Book-keeping.

3. Iron manufactures and trade. Steel. (See I 14 +.)

4. Other metals; metallurgy in general.

5. Textile fabrics and materials. Dyeing and bleaching. (See I u 1)

6. Watch and instrument making; horology; dialling.

7. Carriage and cabinet making and painting.

8. Leather, shoes, etc. Caoutchouc.

9. Pottery, porcelain, terra cotta, ceramic art, bricks, glass, jappanning

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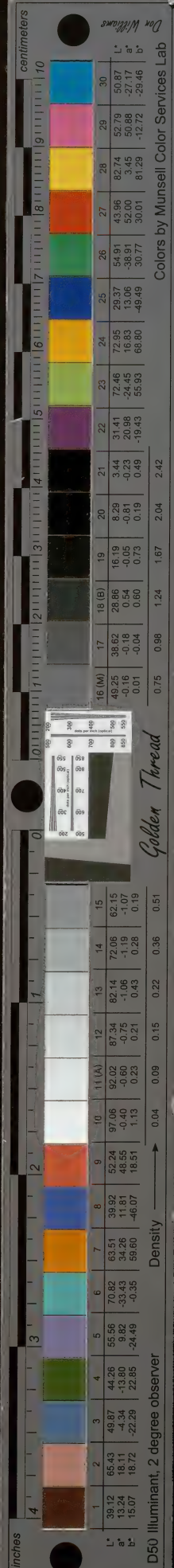
10. Other arts and trades, arranged alphabetically. *Irony earning*
 +. Brewing and distilling; gauging; bar tending.
11. Agriculture and gardening. Agricultural chemistry and products.
 +. Fruits and fruit trees, vineyards, wines, vinegar.
 △. Agricultural and horticultural associations. U. S. and State Reports. *Agri. agric. in*
 □. Fish culture. *Fish Commission.*

IV. Insect enemies.

12. Landscape and ornamental gardening, rural life, forestry, rural cemeteries, etc. (See I 15 +.) *Forestry of State in.*
13. Treatises on horses, cattle, dairy products, sheep, poultry, pigeons, etc. *Home pet*
 The veterinary art, farriery.
14. Treatises on silkworms and bees. Silk industry. (See I u 5.)
15. Treatises on cookery and carving. Gastronomy. Food. Markets. Sugar boiling.
16. Industrial exhibitions and chefs d'œuvre. South Kensington Museum and Conferences. The Centennial of 1876, etc.
17. Miscellaneous. Domestic economy. Needlework. (See I s 8.) Toilet arts.
- v Navigation, naval architecture, naval tactics. (See U b 10 and I p.)
1. Historical works. The merchant service. (See U p 8, U y 14.)
 2. Diving; torpedoes.
 3. Sea fishing.
- w Military art, militia, military engineering. (See E n, I h 2, U y 7 □.)
1. Military history. (See U p 8 and U y 14.)
 - + . Waterloo campaign.
- x Recreative arts.
1. Field sports, cricket, angling, the dog, horsemanship and horse racing (See I u 13), coaching, velocipedes, skating, rowing, and swimming. Bull fights, cock fighting, boxing, wrestling, and fencing. Trapping, the rifle, sporting guns and tackle, game birds and animals, etc. *gymnastics*
 +. Sporting tours, anecdotes, magazines, etc. *Rodeo*
 2. Parlor pastimes, legerdemain, enigmas, conundrums, charades, and dramas; dancing. Cards, draughts, dominoes, backgammon, billiards, etc.
 +. Chess.
- y Memoirs, histories, and transactions of scientific institutions; academies. *Sci.*
 (See I 1.)
1. American. *Smithsonian*
 2. English, Scotch, and Irish. The British Museum. *Brit. Mus.*
 3. French.
 4. German.
 5. Other.

Note: Institutions devoted to a particular branch of science will be classed accordingly.

General scientific periodicals, year book of facts in science and art, etc.



CLASS O. BELLES LETTRES.

a Grammar and lexicography; general works. Philology. Alphabets.

1. Greek and Latin languages.
2. Oriental, European, and other languages, arranged alphabetically.

Note: Books printed in Arabic, Pali, and other oriental and outlandish characters, except Hebrew (A c 3 and A n) and Sanscrit (A q 4) and Bibles (A e) and Hieroglyphics (U f 4) will be classified under O a 2.

b Rhetoric, criticism, oratory, gesture, elocution, art of conversation and of reading aloud. *Not criticisms of printing. See p. 57*

1. Exercises in elocution. Speakers and readers.
2. Art of composition and of making translations and abridgments. Punctuation.

c Orations and orators; speeches, addresses, discourses.

1. Collected funeral orations. (See U z.)

d Poetry; treatises, history, etc. *Criticisms of single poets.*

1. Greek and Latin poetry and translations. Also treatises thereon.

+ . Homer.

2. English poetry and epigrams. (See U p 3 + and U p 4 +.)

+ . Songs and ballads. Chapbooks.

△. Scottish poetry and treatises thereon.

□. History (*English Poetry. Periods of English Poetry*).

IV. Collected British poets and selections in the English language.

V. Collected American poets and selections.

3. French poetry.

+ . Early, Provençal, and patois; Chansons de geste, the troubadours and treatises thereon.

4. German and Dutch poetry and poets.

5. Italian poetry; also treatises and criticisms thereon.

6. Other languages.

7. Macaronics.

Note: In Poetry, Drama, and Fiction, translations into English (except works written in Latin and Greek) are classed respectively O d 2, O d 3, and O f 2.

e Drama. Treatises on the stage and histories thereof. Passion plays. *Example*

1. Dramatic works; Greek and Latin and translations. (*See I x 2 from*

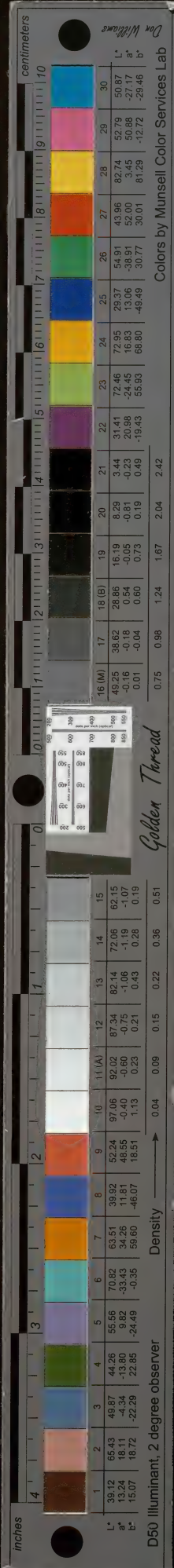
2. " " English. *theatricals*

+ . Shakespeare, including his life, etc.

3. Dramatic works: French.

4. Dramatic works : German.
5. " " Italian.
6. " " Other languages.
7. Musical dramas. Librettos of operas and oratorios. (See I s 7 Δ .) *Story of opera.*
- f Fiction : treatises, history, etc. *Oc 8. Moving pictures (considered from dramatic point of view.)*
 1. Works of fiction, wit and humor, imaginary voyages and adventures, fables and legends; Greek and Latin and translations. *Also Text of scenarios.*
 2. English fiction.
 - + Juveniles.
 3. French fiction.
 4. German fiction.
 5. Italian fiction.
 6. Other fiction.
 7. Folk lore, fairy tales, nursery rhymes, etc. (See A q 1.)
- g Anecdotes, proverbs, maxims, dialogues, emblems, mottoes, anagrams.
 1. Ana : table talk.
 2. Proverbs.
- h. Epistolary writers.
 1. History and art of letter writing.
- i Polygraphy ; or the collected works of authors who have written on various subjects and in various styles.
 1. Greek and Latin, and translations.
 - + Collected editions of the classics.
 2. English.
 3. French.
 4. German.
 5. Italian.
 6. Other.
- j Pamphlets on various subjects bound up together.
- k Pamphlets unbound and awaiting final classification.
- m Literary miscellanies : essays, extracts.
 1. Greek and Latin.
 2. English.
 - + Early English Text and similar printing societies and collections.
 3. French.
 4. German.
 5. Italian. *& other languages.*
 6. Quotations. Concordances other than of the Bible (A d). Index Society ; general indexes to periodicals.
 - + Greek, Latin, etc. *Italian, French, German*

Note : The Index to a particular work, to an author's collected works, and to a particular periodical, will be placed therewith.
- n Literary journals, magazines, reviews, and transactions. *Canadian*
 1. American.
 - + Annuals.



2. British.

3. French.

4. German.

5. Other languages.

Note: Periodicals and transactions relating to a particular subject will be classed accordingly, the publications of purely literary associations being lettered O n.

o Registers and historical journals, statesman's year-book, etc.

p Gazettes, newspapers, prices current, arranged by localities.

1. History of newspapers. Newspaper directories.

2. Newspaper cuttings, scraps, and extracts.

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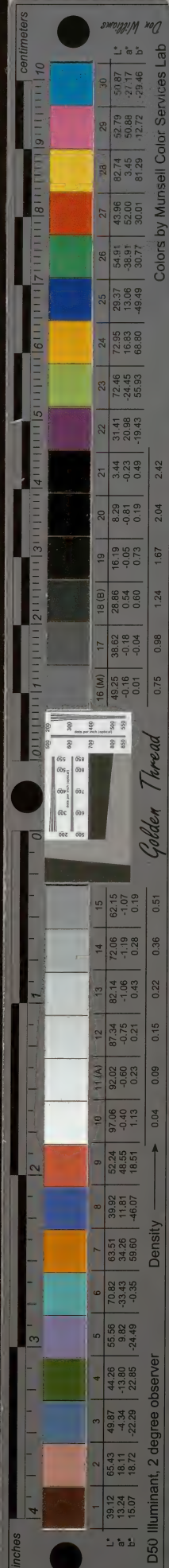
CLASS U. HISTORY.

Note: In cases where the division under History is more minute than under Voyages and Travels (e. g. U d 8 Δ , U v 10 and U x 2), Travels are reckoned as History, and vice versa.

- a Treatises on history. Historic atlases. The philosophy of history.
b Geography, gazetteers, etc.

Note: For geographies of the several United States and Territories see U y 8.

1. Atlases, maps, and charts of the world; miscellaneous maps. Cartography.
+. Ancient.
2. Atlases, maps, charts, and plans of Europe, arranged alphabetically by countries.
3. Atlases, etc., of Asia.
4. " " Africa.
5. " " America.
6. " " the United States.
+. Maps relating to the Rebellion.
7. U. S. Coast Survey Charts and Reports.
8. Atlases, etc., of particular States, in alphabetical order, and subdivided by counties, cities, etc. (See U y 8.)
9. Atlases, etc., of Australia, Oceanica, etc.
10. Hydrography; nautical charts; wind and current charts; sailing directions; light houses; the ocean world and its products; coral reefs; lake surveys; rivers. (See I v.) *Lakes*
11. Physical atlases and geographies. *Mountains*
- c Topography and statistics.
 1. Handbooks of Travel, and Guide books. (See U d 8 Δ , I i 6, I s 6 \square .)
 2. British topography, statistics, censuses, etc. *English Districts; the Black Country, etc.*
+. Ireland.
 Δ . Scotland. *Hebrides, Orkney, Shetland, Skye, etc. (L. A. 2)*
 \square . Wales.
3. British local histories, alphabetical, including Isle of Man.
+. London and the river Thames. (See I t 7.)



4. British county histories and guide books, arranged alphabetically. Isle of Wight.

+ . The Channel Islands.

5. American topography. *The South.*

Note: For the county and local histories, etc., of the several States and Canada, see U y 8, and U y 9 +.

6. American statistics, censuses, etc. (See U y 7 vii.)

7. Directories, arranged alphabetically by localities.

d Voyages and travels. Treatises on travelling.

1. Histories and collections of voyages. Hakluyt Society.

2. Voyages and travels in various parts of the world. Overland route.

3. Round the world; South Seas; Polynesia; N. W. Passage; N. W. Coast of America. *Alaska*

+ . Arctic and Antarctic expeditions and treatises thereon.

4. Australia, New Zealand, Van Dieman's Land, New Guinea.

5. Shipwrecks and disasters at sea. Life boats.

6. Travels in various parts of Europe; the Mediterranean; Dalmatia and Montenegro; the Rhine, etc.

7. Travels in the North of Europe; Russia, Germany, Hungary, Holland, and Belgium.

8. Travels in Italy, France, Spain, Portugal, Switzerland, etc.

+ . Madeira, the Azores, and the Canaries.

△. Paris, including Guide books and histories.

9. Travels in Great Britain and Ireland.

10. Travels in Turkey, Greece, the Levant, the Crimea, Syria, Palestine and Arabia.

+ . The Holy Land, Moab, the Dead Sea, etc., including their history and geography.

△. Jerusalem.

11. Travels in Persia, China, Hindustan, the East Indies, etc. *Japan*

+ . Siberia and Kamtehatka. (See U q 2.)

△. Central Asia, Tibet, Tartary, Kashmir, etc. (See U x 3.)

□. Caucasus, Georgia, Armenia, the Caspian.

12. Travels in Africa.

+ . Egypt, the Nile, Abyssinia, Ethiopia, Nubia. (See U x 4.)

△. South Africa. (See U x 11.)

□. Central Africa. *The Congo*

IV. St. Helena.

V. North Africa. (See U x 9, U x 12.)

VI. West Coast. (See I i 4 +, U x 10.)

VII. East Africa. (See U x 3 □.)

13. Travels in America and voyages thereto.

+ . South America.

△. Central America and Colombia. *The West Indies.*

e General history. Chronology. (See I p 2.) Ancient history.

1. Historical dictionaries: dates.

f Antiquities: archaeology. (See I t 7.)

1. Prehistoric; fossil man; antiquity of man; the stone age; lake dwellings. Atlantis. (See I m.)

2. Chaldea, Babylonia, Assyria, Nineveh, *Persepolis*.

3. Hindustan, Afghanistan, etc.

4. Egypt and Abyssinia. The Pyramids. Hieroglyphics. Mythology. (See U x 4.) *History of ancient Egypt*

5. Etruria.

6. Greece and Rome: Asia Minor, Ephesus, Palmyra, Baalbec. (See U m, and U u 2.) *Empire of the Middle Ages*

+ . Herculaneum and Pompeii.

△. The catacombs.

□. The city of Rome; its antiquities and topography.

7. Northern Europe. Druidical remains. British barrows.

8. America. (See U y 1.)

9. Customs and costumes, dress, fashions, popular antiquities, ceremonies, pageants, processions, funeral rites, sepulchres. *Clubs. Uniforms*

g Numismatics; medals; ancient coins.

h Chivalry, heraldry, peerage, genealogy, flags, etc. (See I g 3, and U o 1.)

1. Heraldry and heraldic mottoes.

+ . Continental Europe.

2. Royal and noble Houses, Clans, Peerages, Family histories, arranged alphabetically, and followed by works on Names of persons and places.

+ . American.

3. Orders of Knighthood.

+ . St. John and History of Malta.

△. Cincinnati. □. *Sons of the Revolution*

4. Duelling.

Secret Societies, Masonry, Antimasonry, the Rosicrucians, etc. (See A q 1, I e.)

k Gipsies.

l History of Greece.

1. Modern Greece.

History of Rome.

1. Julius Caesar, the Emperors and Empresses. (See U s 2.)

2. Byzantine empire. (See U x 1.)

Historical Extracts and Miscellanies, etc. *Historical essays*

History of Europe. Modern history.

1. Middle ages and Renaissance; Feudalism. (See U h.)

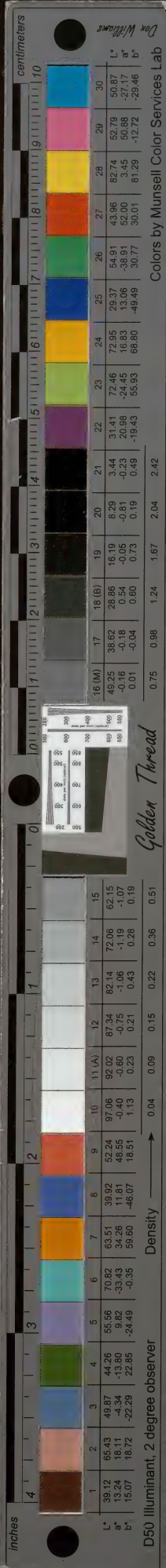
2. Crusades.

3. European Colonies. (See U p 10.) *French in Tongue, Madagascar*

+ . The Celts. (See I m 2.)

European relations To 5

Uo6 European War. 1939-



p British history. *British Britons.*

1. England.

+. Anglo-Saxons.

△. The Rebellions of 1715 and 1745. The Pretenders and Non-jurors.

2. Scotland.

+. Antiquities.

△. Mary Queen of Scots.

3. Wales.

+. Welsh Bards.

4. Ireland.

+. Irish Bards.

5. Government publications; State papers; Parliamentary Blue Books and debates. *and service examinations see II)*

+. The Exchequer, National Debt, Customs.

△. Publications of the Record Comⁿ and of the Master of the Rolls.6. British politics, arranged chronologically. *Political Ballads*+. Junius. *Treatises on Junius*7. Particular reigns; Wives of British sovereigns; Cromwell. (See U z note.)

8. Naval and military history of Great Britain. Particular Regiments. Lives of Admirals. Army and navy lists. United Service Journals, etc. (See I v 1, I w 1.)

9. Collected lives of British statesmen, regicides, etc.

10. British Colonies and Empire. (See U o 3.)

q History of Russia and Poland. (See U r 2.)

1. Crimean and other wars with Turkey. (See U x 1.)

2. Russia in Asia. (See U d 11 +.)

3. Particular reigns.

4. Poland. *Uq 4 + Ukraine*r History of Denmark, Sweden and Norway; Scandinavia; the Northmen and the Normans. Sagas. (See U d 7, U f 7.)

1. Iceland.

2. Lapland and Finland. (See U q.) *Kalevala*s History of Germany. *Geographical*1. Austria, Hungary, Transylvania, Servia, etc. (See U x 1.)

2. Holy Roman Empire, Charlemagne, Charles V., etc.

3. Prussia and the New German Empire.

t History of Holland and Belgium. *Us 4, German Republic*u History of Italy and Switzerland. *Us 4 + Germany. National Socialist Movement.*

1. Switzerland and the Tyrol. (See U d 8.)

2. Papal and modern Rome and the States of the Church. (See A o 13, U f 6 □.)

3. Venice.

4. Naples: the Two Sicilies.

5. Italian Republics: Monaco.

Also Nazi Germany

hy, personal

v Historically by space. (See A o 2 Δ .)1. Note: *L'air* reigns, arranged chronologically, including *Mémoires pour*
se. phi+. *Jct. of Arc.*2. Revolution of 1789. *The Directory.*

+. The Dauphin.

3. Consulate and Empire. All lives, etc., of Napoleon I.: also his works.

4. Restoration, Revolution of 1830, Louis Phillippe.

5. Revolution of 1848.

6. Second Empire. Lives and works of Napoleon III.

7. Franco-German war.

8. Republic. The Communists.

9.

10. Corsica.

w History of Spain and Portugal. (See U x 6 +.) *Peninsula War. (See U x 6.)*

x Asiatic and African history. The Mongols. Asiatic Societies, etc.

1. History of the Ottoman Empire and its possessions. The Eastern ques-
tion. (See U q 1, U s 1.)

2. China and Japan: Coolies. Chinese Emigration. (See A q 6.)

3. Hindustan and the East Indies; Siam, Nepal, Afghanistan, etc. *Malay peninsula*

+. The Hon. E. India Co. and the British rule in India.

 Δ . Dutch East Indies. Borneo. Java. \square . Mauritius and Madagascar.

IV. The Sepoy war.

4. Egypt and Abyssinia. (See U d 12 +, and U f 4.)

+. Suez Canal.

5. Australasia, Melanésie, Oceanica, Polynesia, Australia, New Zealand. *Hawa*6. Arabia, the Saracens and the Moors. (See U x 9.) *Palestine*

+. Arabs in Spain and their antiquities. (See U w.)

7. Phenecia. (See U x 12.)

8. Persia.

9. Algiers and Algérie. Tunis, Tripoli, the Barbary States, Morocco, etc.
(See U x 6.)

10. West coast of Africa: Dahomey. (See I i 4 +, U d 12 vi.)

South Africa. The Cape. (See U d 12 Δ .)

Carthage. (See U x 7.)

Tartary

History of America.

. The Aborigines. U. S. Reports on Indian Affairs, etc. (See U f 8.) *Indian*

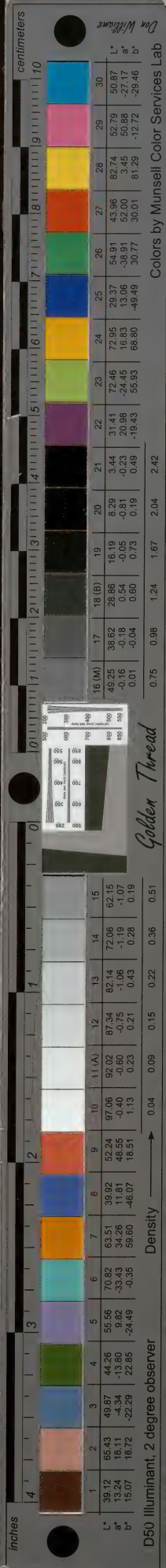
. History of the U. States. Colonial history.

+. Mississippi Valley and the Far West.

 Δ . Pacific Slope.

3. Revolution.

+. American Loyalists.



4. Second war with Great Britain.
5. Secession and the civil war: the Sanitary Commission and State Adj.-General's Reports (1861 to 1868): Particular Regiments: Rolls of Honor: the Freedmen: Reconstruction: the Alabama question: etc. (See U b 6 +.) *Collected war...*
- + Confederate States of America.
6. Local and occasional politics, etc., of the U. S., arranged chronologically. Pamphlets relating to American affairs. *History of parties & elections*
- + The Federalist.
7. U. S. Government. State Papers, Public Documents, Congressional Debates and Directories, etc. *Civil Service*
- + Blue Books, Registers of U. S. officers, Army and Navy lists, West Point Registers, etc.
- △. The Treasury and the Tariff.
- . War Department. (See U b 6 +.) *Commissary Reports*
- IV. State " "
- V. Navy " *Navy regulations.*
- VI. Interior " "
- VII. Office Department. (See I i 3 +.)
- VIII. District of Columbia: Washington City.
- IX. *Supreme Court Dept. Justice* Particular States and Territories (Except Utah, A o 9), arranged alphabetically. (See U b note.) *Washington DC*
- Note: Under the history of each State are included, as a rule, its public documents: (See Ef 2, Ih 2, Il 3, Uy 5); also local histories, gazetteers, etc. (See U b 8, U c 7.) (Su 11 A.)*
9. British America and the W. Indies.
- + Nouvelle France: Canada. *War of 1757*
- △. Acadie: Nova Scotia, Newfoundland, New Brunswick, etc.
- . Jamaica.
- IV. St. Domingo: Hayti.
- V. Barbadoes.
- VI. Cuba, Porto Rico, etc.
- VII. Bahamas and Bermudas.
- VIII. Hudson's Bay Territory, Manitoba, Victoria, etc.
- IX. Danish West Indies.
10. Spanish America, Mexico, and Central America.
- + The war between the U. S. and Mexico.
11. South America.
- + Peru.
- △. Brazil, La Plata, Paraguay, etc.
- . Demarara and Guiana.
- IV. Chili and Patagonia.
12. Greenland and Labrador.
13. Buccaneers.
14. Naval and military history of U. S., including periodicals.

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z Biography, personal narratives, diaries, wills, eulogiums, arranged alphabetically by subjects.

Note: Lives of reigning Sovereigns are classed U p, U q, U r, etc.

1. Biographical dictionaries and collections. (See A o 13, 14.) Next of kin.

Collected wills.

See Im q (Physicians), Or (actors), Od 20

+ . American.

△. Artists; painters, engravers, musicians, architects, players. (*but see Or*) *to d 20*

□. Judges, chancellors, lawyers.

(Poets)

2. Biography in the French language. (See U v 1.)

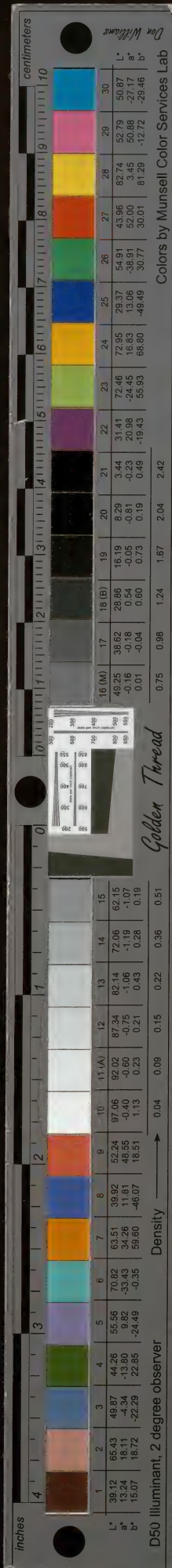
3. Portraits and treatises thereon, etc. (See I d and U g.)

4. Epitaphs.

5. Autographs.

+ . American.

Note: Books, letters, etc., relegated to the Department of Manuscripts, will have a distinguishing mark (MS.) in the card catalogue, but will be classified precisely as if they were in print; autographs which have a value chiefly as illustrating the writer's life and character being marked U z 5, or U z 5+. The cards used for the Department of Manuscripts should be of a different color from the rest.



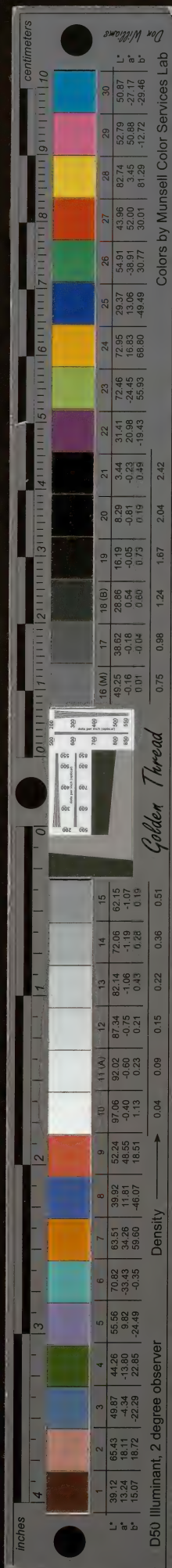
quib. and manuals
CLASS Y. BIBLIOGRAPHY.

- sub's*
a General and miscellaneous catalogues and treatises. Periodicals. Best reading.
b Special catalogues and treatises.
 1. Americana.
 2. Pseudonyms and autonyms. *Anonymous*
c Sale catalogues, Publishers' Circulars and Trade Lists.
d Catalogues and descriptions of private libraries. *and reports.*
e Catalogues of public libraries. *Description of public libraries.*
f Art of cataloguing, classification of knowledge: Library economy, histories, associations, periodicals, etc. *Reports*
g Arts of writing, illuminating, printing, and book binding. Manufacture of paper and ink. *Publishing houses*
 1. Playing cards and block books, with fac-similes thereof.
 2. Exemplaria Typographica: Aldus, Baskerville, Strawberry Hill, Saur, Jansen, Ephrata, etc. Printing for the blind.
 3. Curious bindings.
 4. Penmanship.
 5. Philately. Catalogues of postage and excise stamps.
h Stenography, Phonetic writing and printing, Steganography, etc. *cryptology*
i Book rarities, incunabula, book plates and treatises thereon.
 1. Rarissima necnon pretiosa.
 2. Palaeographia: Illuminated MSS. and Fac-similes. Diplomatics.
 3. Incunabula, and curious books of the 16th century.
 4. Ex-libris and treatises on book plates.
k History and philosophy of literature. *Foreign Classics for Eng.*
 1. Greek and Latin. *Ancient Classics for Eng. Readers*
 2. English. *Calamities of Authors, &c. Periods*
 +. American. (See Y b 1.)
 3. French.
 4. German, Dutch, and Scandinavian.
 5. Italian.
 6. Other. (See A n.)

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NOTE.

For the convenience of Librarians who use Mr. Dui's system of classification, his numbers are appended in the OUTER COLUMN of this Index.

The letter S means *see the subject*.

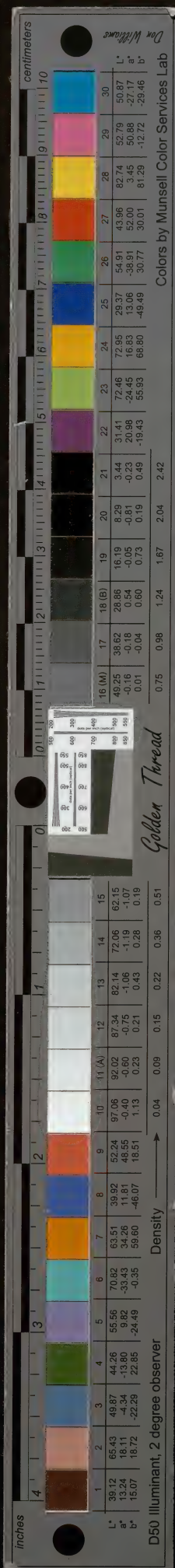
When a reference is made to two or more subdivisions, they should all be referred to before deciding under which head to classify a particular book.

ALPHABETICAL INDEX.

"A place for everything, and everything in its place."

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| Aborigines of America | Oa 2, Uy 1 | 970 | ecclesiastical history | Ao | 276 |
| Abortion | In 4 | 618 | geography | Ub, Ub 4 | 916 |
| Abridging, art of | Ob 2 | 815 | geology | Ii 2 | 556 |
| Abyssinia | Uf 4, Ud 12 + | 963 | history | Ux | 960 |
| " language | Oa 2 | 493 | statistics | Uc | 316 |
| Academies | Ih 2 | 378 | travels | Ud 12 | 916 |
| " of science | Iy | 506 | Central | Ud 12 □ | 916, 966 |
| Acadie | Uy 9 △ | 971 | East | Ud 12 vii | 916, 960 |
| Accounts | Iu 2 | 657 | North | Ux 9, Ud 12 v | |
| Acoustics | Ir | 534 | | | |
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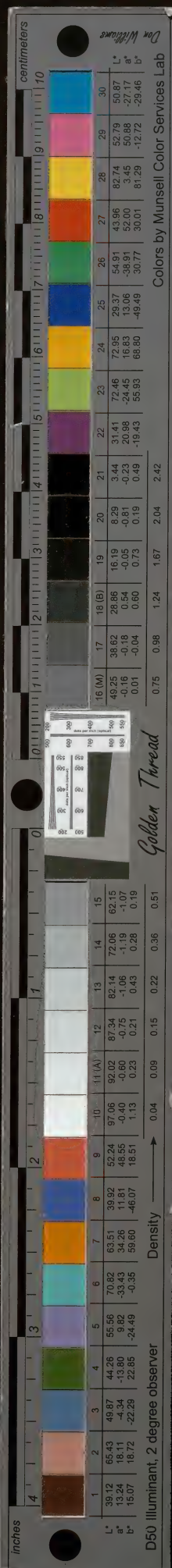


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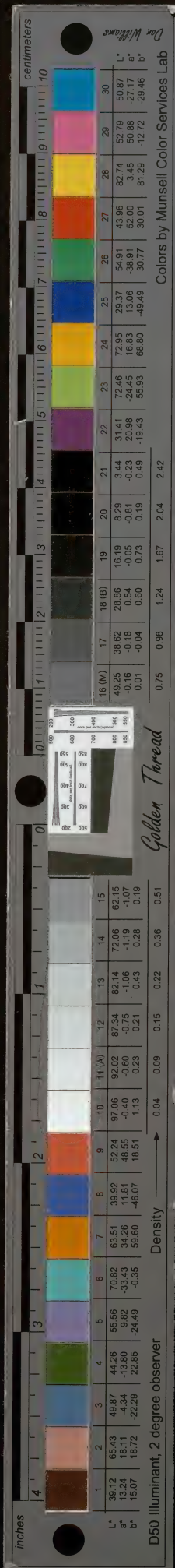


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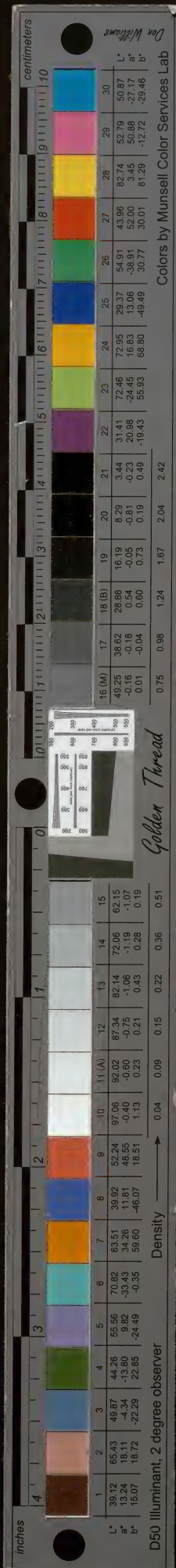
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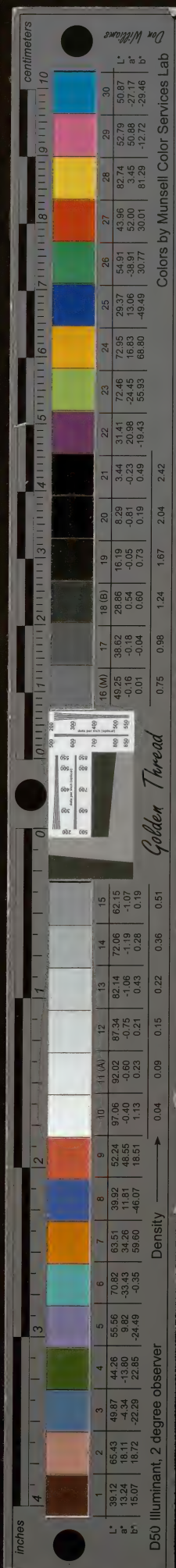
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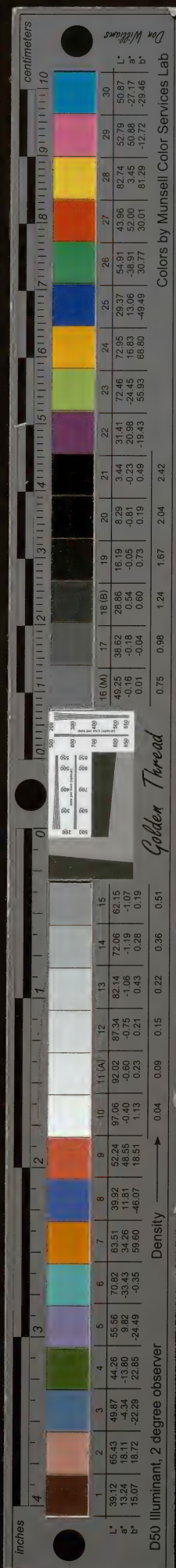
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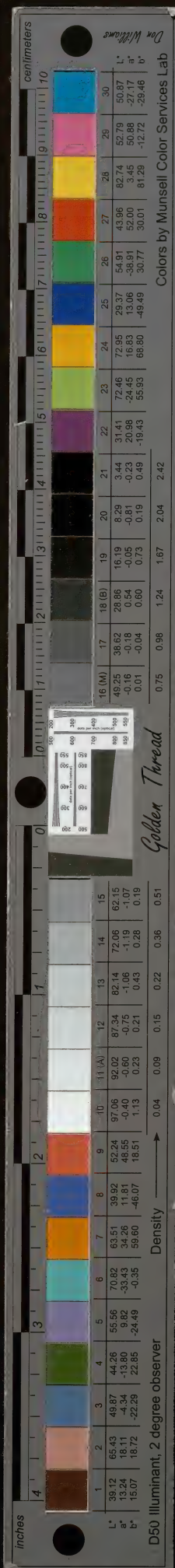


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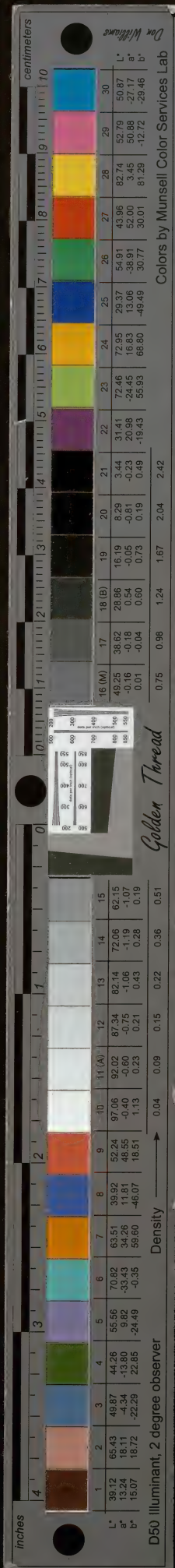
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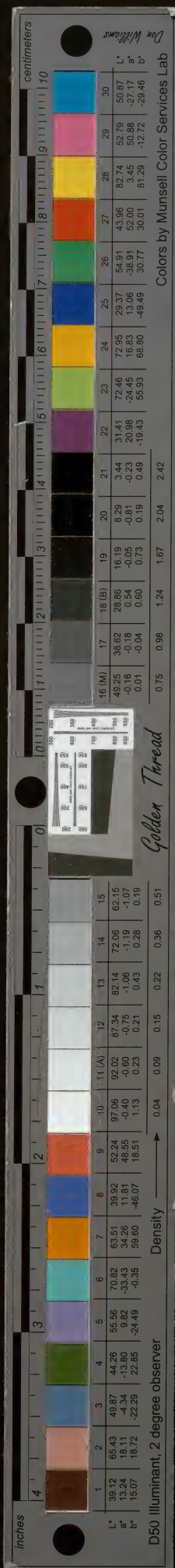


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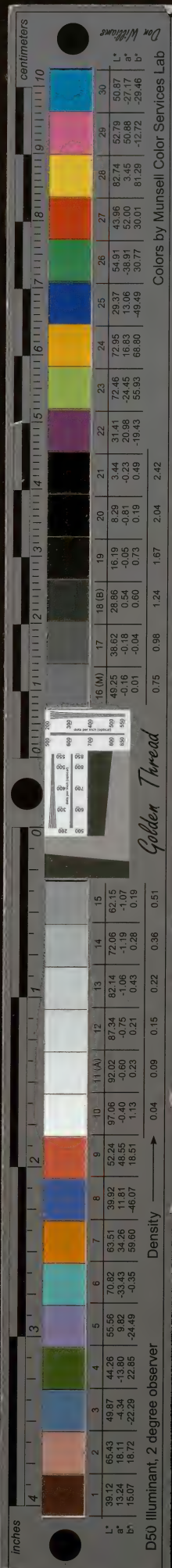
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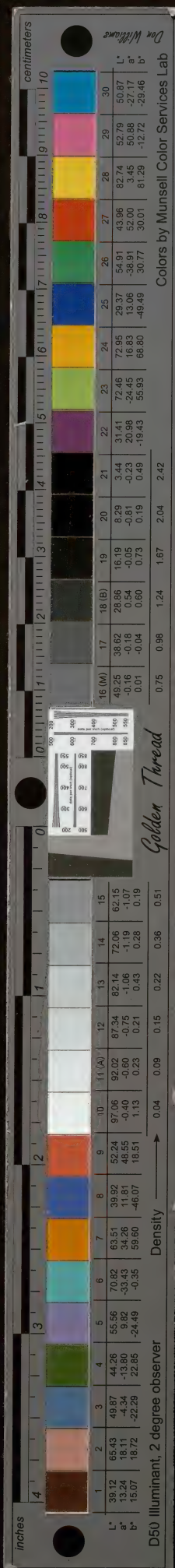


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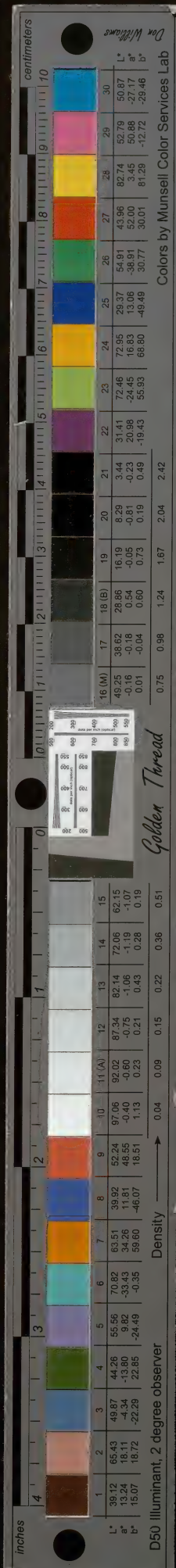
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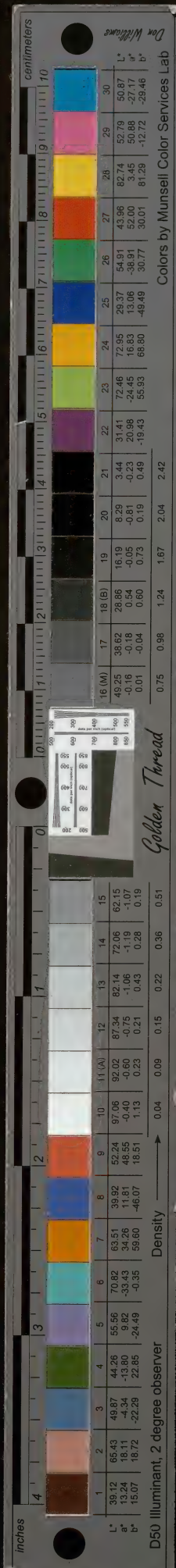
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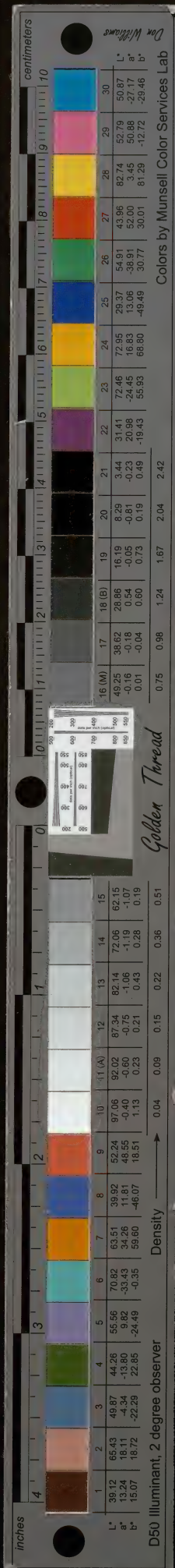
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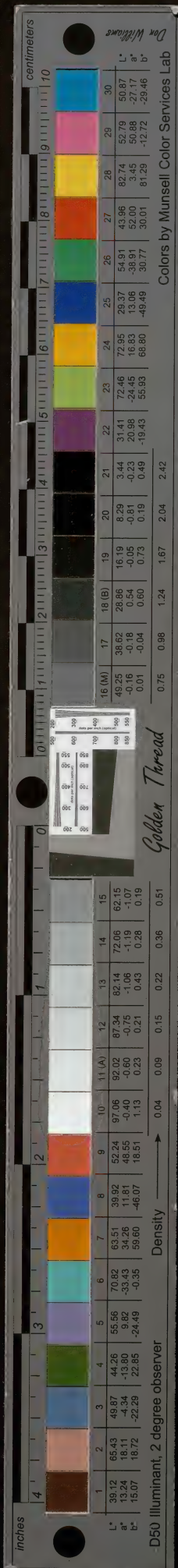
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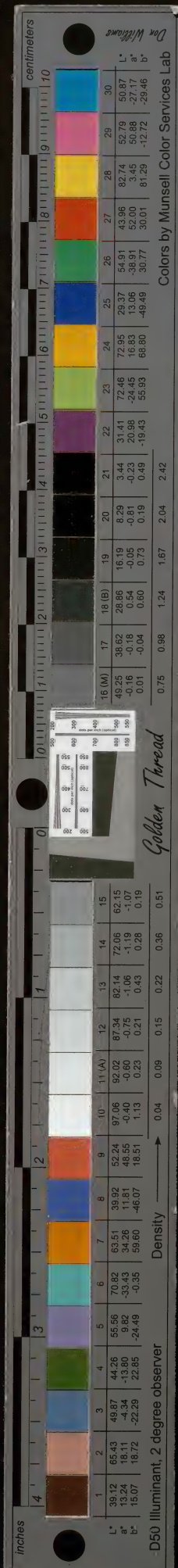


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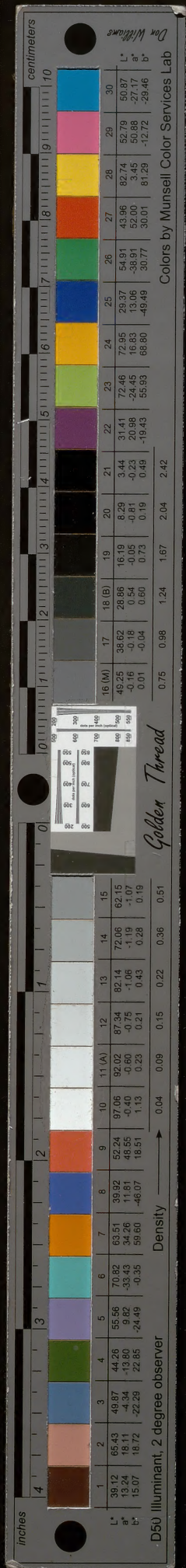
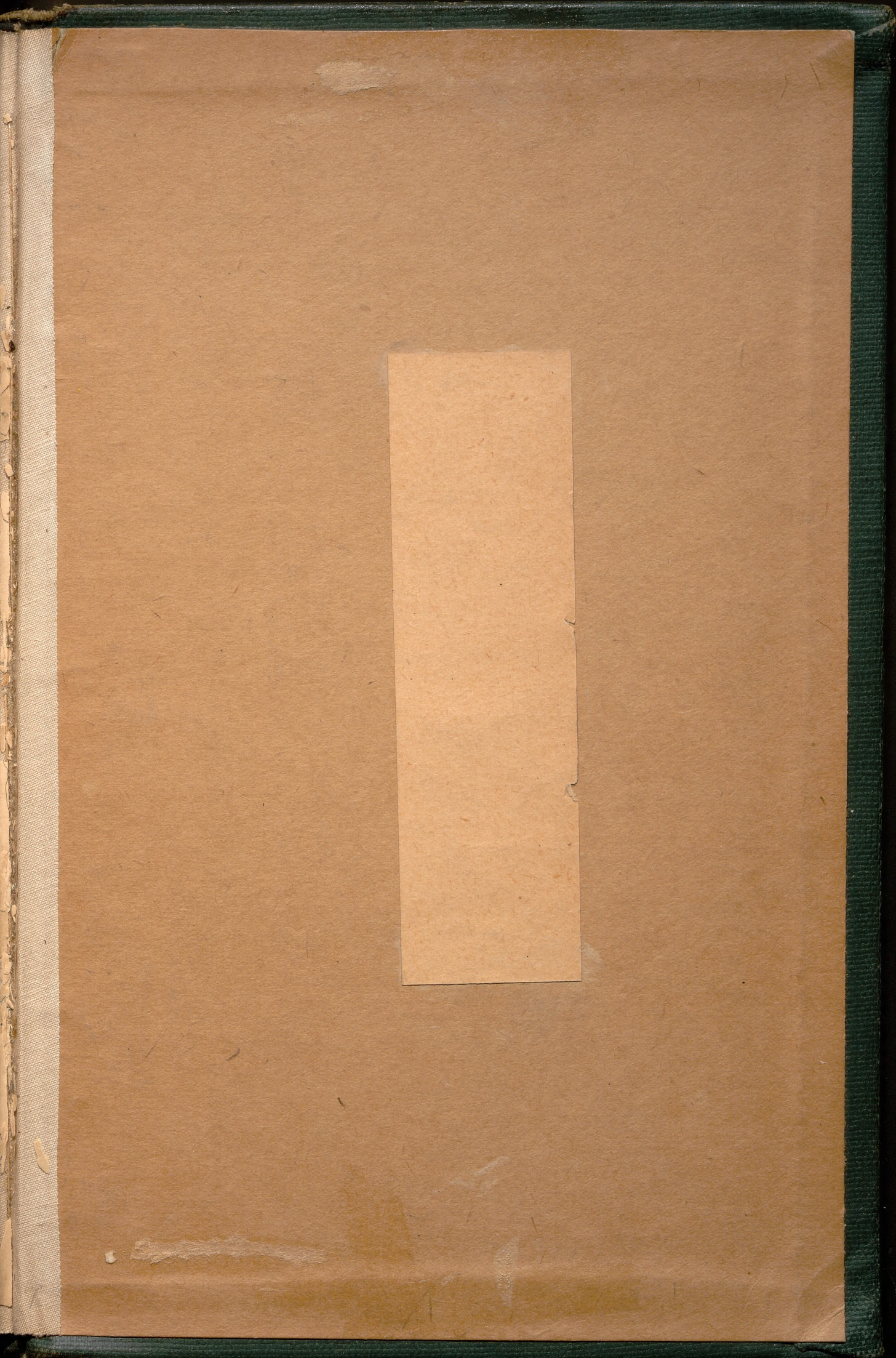
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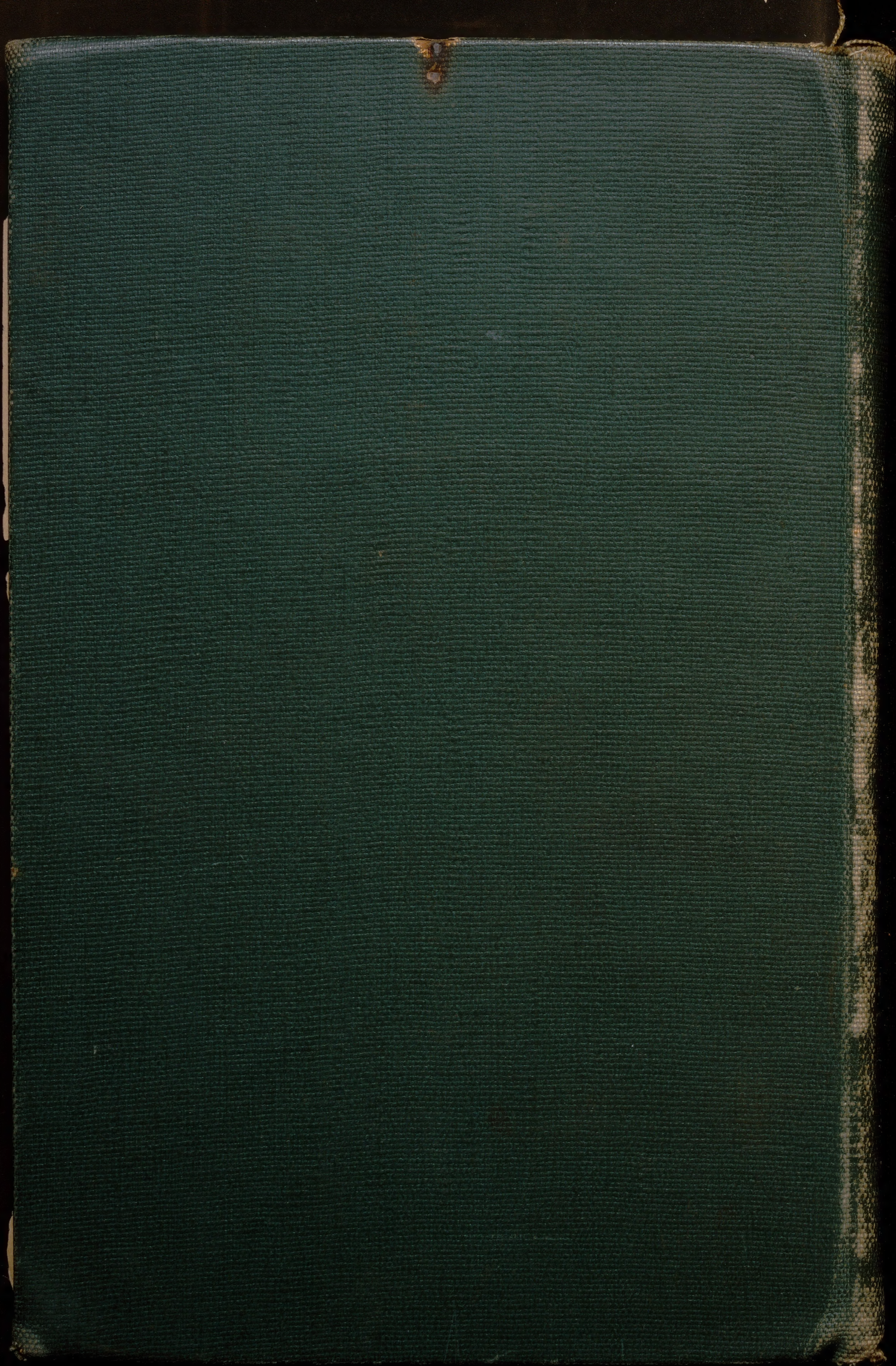


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